SOUTHERN UNIVERSITY AND A & M COLLEGE PURCHASING DEPARTMENT

J.S. Clark Administration Annex Building
1st Floor East
Baton Rouge, Louisiana 70813

INVITATION TO BID (ITB):

AUTOMATED SOIL CO2 FLUX SYSTEM
Bids will be received at the above office until 10:00 A.MMAY 16, 2006 and at that time publicly opened. Bids received after above specified time will be returned unopened.
BID OF:
ADDRESS:
TO: PURCHASING DEPARTMENT Southern University Post Office Box 9534 Baton Rouge, Louisiana 70813
The undersigned certifies that he or she has (or they have) carefully examined the instructions to bidders, the general conditions and specifications here to attached and made part thereof, and agreed to comply with such instructions. The undersigned proposes to furnish any and all items hereto attached upon which prices are requested at prices as stated for each item.
Bidder:
Bidder: Company's Name
By:
Evidence of Authority to submit the bid shall be required in accordance with R.S.38:2212(a)(1)(c) and/or R.S.39:1594 (c)(2)(d).
Date:
Telephone Number ()
BID NUMBER 9319 FAX Number ()

SOUTHERN UNIVERSITY AND A & M COLLEGE PURCHASING OFFICE Post Office Box 9534 Baton Rouge, Louisiana 70813 Telephone: (225) 771-4580

Telephone: (225) 771-4580 FAX: (225) 771-2026

In compliance with the request for be and agrees, if this bid is accepted w to furnish any or all the items upon	ithin thirty (30) days which prices are quo	from the date of bi	d opening, opposite each item.
Completion time shall beafter Purchase Order, Notice to Proc	ceed and/or Execute	d Contract is issued.	secutive calendar da
Any bid (Construction Only) submor more, the Contractor shall certify his/her license number on the outside	that he/she is licens	ed under R.S. 37:21	
Evidence of authority to submit the (2)(C) and/or R.S. 39:1594(C)(2)(L		l in accordance with	R.S. 38:2212 (A)
BIDDER			
BY			
4	ordance with R.S. 38:2212 (A)(1)(C) and/or R.S. 39:1	594 (C)(2)(D)
BY	ordance with R.S. 38:2212 (A)(1)(C) and/or R.S. 39:1	594 (C)(2)(D)
Signature Authority: In Acco	ordance with R.S. 38:2212 (A)(1)(C) and/or R.S. 39:1.	594 (C)(2)(D)
BYSignature Authority: In Acco	ordance with R.S. 38:2212 (A)(1)(C) and/or R.S. 39:1: State	Zip Code
Signature Authority: In Acco			

THE ITEMS ON THIS PROPOSAL ARE TRANSPORTATION CHARGES PREPAID TO SOUTHERN UNIVERSITBATON ROUGE, LOUISIANA 70813

AUTOMATED SOIL CO2 FLUX SYSTEM

Item No.	Quantity	Description	Unit Price	Amount
1	I each	LI-8100 Automated Soil CO2 Flux System or an approved equal (per attached specifications)		
2	1 each	LI-8100 CHAMBERS/see attachments 8100-101 Long term chamber		
3	1 each	8100-102 Survey chambers, 10cm		
4	1 each	8100-103 Survey chamber, 20 cm		
5	1 each	LI-8100 ACCESSORIES/see attachments 6400-03 Rechargeable battery		
5	1 each	LI-6020 Battery charger		
7	1 each	8100-201 Soil temperature probe		
8	1 each	8100-202 Soil moisture probe	-	
9	1 each	8100-554 Compact flash memory card		
10	1 each	8100-561 Wireless comm. Package		
11	1 each	6581-044 8100-101/103 Soil collar (20cm)		
12	1 each	6581-060 8100-101 Collar gasket		
13	1 each	6560-228 8100-102 Soil collar (10cm)		
14	1 each	6560-229 8100-102 Foam gasket		
15	1 each	6581-057 8100-102 Manifold gasket		
16	1 each	6581-065 8100-102 Survey collar gasket		
		9919		

Auto Page		O2 Flux System	
17	1 each	6581-066 8100-102 Chamber flange gasket	
18	1 each	6581-057 8100-103 Manifold gasket	
19	1 each	6581-107 8100-103 Collar foam gasket	
20	1 each	6581-108 8100-103 Soil collar gasket	
21	1 each	392-07713 Serial to USB adapter	

VENDOR NOTE CAREFULLY:

We may indicate stock and/or model numbers as a guide, but we will consider an approved equal. If not bidding as specified, we'd like to have vendors' complete description and/or specifications of item(s). Failure to submit manufacturers' specifications for comparison and awarding purposes will result in rejection of bid.

The LI-8100 is a complete and dedicated system for continuous, unattended long-term measurement fast, repeatable survey measurements. A novel pressure vent design allows chamber pressure to tra ambient pressure under calm and windy conditions.

LI-8100

Rechargeable Battery

Includes Analyzer Control Unit, Auxiliary Sensor Interface, Serial Cable Interface, RS-232 Serial Cable. RS-232 to USB Adapter, Spares Kit, Compact Flash Memory Card, PC Card Adapter, Shoulder Strap Kit, Software CD (Windows* and Palm* Interface plus Data Analysis Software) and Instruction Manual (Chamber, Battery and Battery Charger not Included)

LI-8100 Chambers

8100-101	Long-Term Chamber
	Includes gasket kit, spares kit and two soil collars
8100-102	Survey Chamber, 10 cm
	Includes 8100-201 soil temperature probe, gasket kit, spares kit and six soil collars
8100-103	Survey Chamber, 20 cm
	Includes 8100-201 soil temperature probe, gasket kit, spares kit and six soil collars

LI-8100 Accessories

6400-03

0400-00	Provides 3 or more hours of battery life.
LI-6020	Battery Charger (92-138/184-276 VAC, 47 to 63 Hz)
8100-201	Soil Temperature Probe (Omega*)
	Type E, -40 to >100°C
8100-202	Soil Moisture probe (ECH ₂ O*)
	Volumetric water content, 0 to saturation
8100-554	Compact Flash Memory Card
	Industrial grade, 128 MB. Type 1.
8100-561	Wireless Communications Package ,
	Includes Palm* PDA, Serial Cable for the PDA, Cisco* Wireless Card (802.11b), and Palm* Universal Travel Kit.
	(Wireless communication may not work in all locations or at all times due to local interferences. For this reas
2524 244	a serial cable backup is included.)
6581-044	8100-101 or 8100-103 Soil Collar (20 cm)
6581-060	8100-101 Collar Gasket
6560-228	8100-102 Soil Collar (10 cm)
6560-229	8100-102 Foam Gasket
6581-057	8100-102 Manifold Gasket
6581-065	8100-102 Survey Collar Gasket (w/screw holes)
6581-066	8100-102 Chamber Flange Gasket
6581-057	8100-103 Manifold Gasket
6581-107	8100-103 Collar Foam Gasket
6581-108	8100-103 Soil Collar Gasket (w/ screw holes)
392-07713	Serial to USB adapter

The LI-6400 is recognized as the premier photosynthesis system in the world due to its performance, flexibility and integration. It is the most referenced photosynthesis system and can be used to make simultaneous gas exchange and fluorescence meaurements over the same leaf area.

LI-6400

Portable Photosynthesis System Includes system Console with 128 MB RAM for operation and 64 MB data storage, Sensor Head with CO2/H2O Analyzers, Standard 6 cm² Leaf Chamber with Internal PAR Sensor, 4 Rechargeable Batteries, Battery Charger, RS-232 Serial Cable, RS-232 to USB Adapter, Windows* Software, Spare Leaf Temperature Thermocouple, Field Stand, two Scrub Tubes, Spares Kit, Instruction Manuals and Carrying Case.

- An NDIR CO₂ and H₂O gas analyzer: pressure corrected, temperature controlled optical ber
 for low zero and span drift, factory calibrated for high accuracy, user-cleanable optics, and
 measurement that allows for dilution corrections
- A novel pressure vent designed to maintain the pressure equilibrium between inside and out the chamber under both windy and calm conditions
- A Rotary pump that moves air with minimum pressure pulse (diaphragm pumps typically u
 in other systems cause a pressure pulse which may perturb the CO₂ flux from the soil)
- Choice of 10 cm or 20 cm survey chambers, automated to eliminate user perturbations of th
- A 20 cm long-term chamber that moves away from the measurement area when it is not in measurement mode to minimize the chamber effects on the natural soil conditions
- A gasket system that prevents leaks and minimizes mechanical disturbance of the soil as the chamber opens and closes
- · Wireless communication using a Palm PDA
- · Compact Flash Card data storage
- Weatherproof enclosure for the gas analyzer and system electronics
- Can connect to a multiplexer designed for up to 16 chambers
- · Windows and Palm interface software
- Data Analysis software, allows for post-processing of data files
- Uses an exponential data fit for flux rate estimation to minimize the impact of CO₂ diffusior gradient change inside the chamber
- Operating temperature range of-20 to +45 °C
- Voltage channels for ancillary measurements (soil temperature, moisture, etc.)

9919

SPECIAL CONDITIONS BIDDER'S CERTIFICATION OF EEOC AND ADA COMPLIANCE

Southern University and A&M College Systems of the State of Louisiana is an equal opportunity employer and looks to its contractors, sub-contractors, vendors, and suppliers to take affirmative action to effect this commitment in its operations.

By submitting and signing this bid, the bidder certifies that he agrees to adhere to the mandates dictated by Title VI and VII of the Civil Rights Act of 1964, as amended; the Vietnam Era Veterans' Readjustment Assistance Act of 1974; Section 503 of the Rehabilitation Act of 1973; Section 202 of Executive Order 11246, as amended; and the Americans with Disabilities Act of 1990. Bidder agrees that he will not discriminate in the rendering of services to and/or employment of individuals because of race, color, religion, sex, age, national origin, handicap, disability, veteran status, or any other non-merit factor.

Bidder further agrees to keep informed of and comply with all Federal, State, and local laws, ordinances, and regulations which affect his employees or prospective employees.

Any person who is a "Qualified Individual with a Disability" as defined by 42 USC 12131 of the American with Disabilities Act who has submitted a bid on this procurement and who desires to attend the bid opening, must notify this office in writing no later than seven(7) working days prior to the bid opening date of their need for special accommodations. If the requested accommodations cannot be reasonably provided, the individual will be so informed prior to the bid opening.

R.S. 39: 1594 (Act 121)

Evidence of authority to submit the bid shall be required in accordance with R.S. 38:2212 (A)(1)(C) and/or

R.S. 39:1594 (C) (2) (D).

"Signature Authority: In accordance with L.R.S. 39:1594 (Act 121) the person signing the bid must be:

- A current corporate officer, partnership member or other individual specifically authorized to submit a bid as reflected in the appropriate records on file with the Secretary of State; or
- 2. An individual authorized to bind the vendor as reflected by an accompanying corporate resolution, certificate or affidavit; or
- 3. An individual listed on the State of Louisiana Bidder's Application as authorized to execute bids.

By signing the bid, the bidder certifies compliance with the above."

VENDOR PREFERENCES

In accorda	nce with	the Louisiana	Revised	Statutes	39:1595,	a p	reference	of	10%	may	be	allowed	for
products p	roduced,	manufactured,	grown o	or assemb	oled in Lo	ouis	iana of eq	ua	l qua	lity.			

Do you claim this preference? Yes No
SPECIFY ITEM NUMBER(S)
FAILURE TO SPECIFY ABOVE INFORMATION MAY CAUSE ELIMINATION FROM PREFERENCES
Page 1 of 2

SPECIAL CONDITIONS

Tax Information/State of Louisiana

In accordance with Act Number 1029 of the 1991 Regular Session, effective September 1, 1991 state agencies will no longer be required to pay state sales tax.

BID BOND

A bid bond, cashier's check, or certified check, in the amount of 5% of the total bid, made payable to Southern University and A&M College, must accompany each bid.

If a bid bond is used, it shall be written by a surety or insurance company currently on the U.S. Department of the Treasury Financial Management Service list of approved bonding companies which is published annually in the Federal Register, or by a Louisiana domiciled insurance company with at least an A-rating in the latest printing of the A.M. Best's Key Rating Guide to write individual bonds up to ten percent of policyholders' surplus as shown in the A.M. Best's Key Rating Guide.

REQUIRED: Yes _____ No _XXX

PERFORMANCE AND/OR PAYMENT BOND

The successful vendor will be notified by letter to secure a Performance and/or Payment Bond equal to the contract sum, from a surety or insurance company currently on the U.S. Department of the Treasury Financial Management Service list of approved bonding companies which is published annually in the Federal Register, or by a Louisiana domiciled insurance company with at least an A-rating in the latest printing of the A.M. Best's Key Rating Guide or by an insurance company that is either domiciled in Louisiana or owned by Louisiana residents and is licensed to write surety bonds.

In addition, any performance and/or payment furnished shall be written by a surety or insurance company that is currently licensed to do business in the State of Louisiana.

The Bond must be received within twelve (12) days from the date of notification.

If the Bond is not received within this period of time, Southern University reserves the right to award to the next acceptable low bidder, or to reject all bids and re-advertise, whichever is in the best interest of Southern University and the State of Louisiana.

REQUIRED: Yes ______No __XXX

BIDDERS MUST COMPLY WITH ALL REQUIREMENTS ON THESE PAGES. IF THIS PAGE IS NOT RETURNED WITH BID, CONFIRMATION THAT YOU ARE COMPLYING WITH ALL REQUIREMENTS WILL BE REQUIRED PRIOR TO AWARD.

SOUTHERN UNIVERSITY BATON ROUGE

Southern University Purchasing Department will receive sealed bids until the time and date(s) specified in this Invitation for Bid (IFB). No bid will be considered if receive by the Purchasing Department after specified time and date(s). Beginning at that time, bids will be publicly opened, and read in the Conference Room-1 st Floor East of the J.S. Clark Administration Annex Building, or otherwise made available.

Bids shall be mailed to:

As an alternative, bids may be hand delivered to:

Southern University

Southern University Purchasing Department

Purchasing Department

1 st. Floor East - James L. Prestage Drive

Post Office Box 9534

J.S. Clark Administration Annex Building.

Baton Rouge, Louisiana 70813

Baton Rouge, Louisiana 70813

Bids submitted are subject to provisions of La. R.S. 39:1551-1736; Purchasing Rules and Regulations; Executive Orders; the General Conditions; and Special Conditions and Special Conditions listed in this Invitation for Bid.

INSTRUCTIONS TO BIDDERS

1.Bid Forms

All written bids, unless otherwise provided for, must be submitted on, and in accordance with, forms provided, properly signed. Bids submitted in the following manner will not be accepted:

- 1. Bid contains no signature indicating intent to be bound;
- 2. Bid filled out in pencil; and
- 3. Bid not submitted on University standard forms.

Bids must be received at the address specified in the Invitation for Bids prior to bid opening time in order to be considered. Telegraphic and fax alterations to bids received before bid opening time will be considered provided formal bid and written alteration have been received and time-stamped before bid opening time.

2. Special Envelopes.

To assure consideration, all bids should be submitted in the special envelope if furnished for that purpose. In the event bid contains bulky subject material, the special bid envelope should be firmly affixed to the mailing envelope.

3.Standard of Quality.

Any product or service bid shall conform to all applicable Federal and State laws and regulations and the specifications contained in the IFB. Unless otherwise specified in the IFB, any manufacturer's name, trade name, brand name, or catalog number used in the specifications is for the purpose of describing the quality level and characteristic required. Bidder must specify the brand and model number of the product offered in his/her bid. Bids not specifying brand and model numbers will be considered as offering the exact products specified in the IFB.

4.Descriptive Information.

Bidders proposing an equivalent brand or model should submit the bid information (such as illustrations, descriptive literature, technical data) sufficient for the University to evaluate quality, suitability, and compliance with the specifications in the IFB. Failure to submit descriptive information may cause bid to be rejected. Any change made to a manufacturer's published specification submitted for a product shall be verifiable by the manufacturer. If item(s) bid do not fully comply with specifications (including brand and/or product number), bidder must state in what respect the item(s) deviate. Failure to note exceptions on the bid form will not relieve the successful bidder(s) from supplying the actual products requested.

Bid Opening.

Bidders may attend the bid opening, but no information or opinions concerning the ultimate contract award will be given at the bid opening or during the evaluation process. Bids may be examined 72 hours after request is made. Information pertaining to completed files may be secured by visiting the Purchasing Department during normal working hours. Written bid tabulations will not be furnished.

GENERAL CONDITIONS

Southern University reserves the right to award items separately, grouped or on an all-or-none basis and to reject any or all bids and waive any information

1. Prices.

Unless otherwise specified by the Purchasing Department in the IFB, bid prices must be complete, including transportation, prepaid by bidder to destination. Bids other that FOB destination may be rejected.

2.Payment Terms.

Cash discounts for less than 30 days or less than 1% or greater than 5% will be accepted, but will not be considered in determing awards. On indefinite quantity term contracts, cash discounts will be accepted and taken but will not be considered in determining awards. Bids containing "payment in advance" or "COD" requirements may be rejected. Payment is to be made within 30 days after receipt of properly executed invoice or delivery, whichever is later.

3.Deliveries

Bids may be rejected if the delivery time indicated is longer than that specified in the IFB.

4. Taxes.

Vendor is responsible for including all applicable taxes in the bid prices.

5. New Products.

Unless specifically called for in the IFB, all products for purchases must be new, never previously used, and the current model and/or packaging. No remanufactured, demonstrator, used or irregular product will be considered for purchase unless otherwise specified in the IFB. The manufacturer's standard warranty will apply unless otherwise specified in the IFB.

6.Contract Renewals.

Upon agreement of Southern University and the contractor, an open-ended requirements contract may be extended for two (2) additional twelve (12) month periods at the same prices, terms and conditions. In such cases, the total contract term cannot exceed thirty-six (36) months.

7. Contract Cancellation.

Southern University has the right to cancel any contract, in accordance with Purchasing Rules and Regulations, for cause, including but not limited to, the following: (1) failure to deliver within the time specified in the contract; (2) failure of the product or service to meet specifications, conform to sample quality or to be delivered in good condition; (3) misrepresentation by the contractor; (4) fraud, collusion, conspiracy or other unlawful means of obtaining any contract with the state; (5) conflict of contract provisions with constitutional or statutory provision of state or federal law; (6) any other breach of contract.

8. Default of Contractor.

Failure to deliver within the time specified in the bid will constitute a default and may cause cancellation of the contract. Where the state had determined the contractor to be in default, the state reserves the right to purchase any or all products or services covered by the contract on the open market and to charge the contractor with cost in excess of the contract price. Until such assessed charges have been paid, no subsequent bid from the defaulting contractor will be considered.

9.Order of Priority.

In the event there is a conflict between the Instructions to Bidder or General Conditions and the Special Conditions, the <u>Special Condition</u> shall govern.

10.Applicable Law.

All contracts shall be constructed in accordance with and governed by the laws of the State of Louisiana.

11. Equal Opportunity.

By submitting and signing this bid, bidder agrees that he will not discriminate in the rendering of services to and/or employment of individuals because of race, color, religion, sex, age, national origin, handicap, disability, veteran status, or any other non-merit factor.